

Claims

1. (withdrawn) A composition for inducing the expression of phase II enzyme comprising a lipid-soluble *Echinacea* extract.
2. (withdrawn) The composition of claim 1 further comprising a pharmaceutically acceptable carrier.
3. (withdrawn) The composition of claim 1 wherein the *Echinacea* extract is extracted from *Echinacea* roots.
4. (withdrawn) The composition of claim 3 wherein the lipid-soluble *Echinacea* extract further comprises a chloroform soluble *Echinacea* extract.
5. (withdrawn) The composition of claim 1 wherein the *Echinacea* extract is extracted from *Echinacea* aerial parts.
6. (withdrawn) The composition of claim 5 wherein the lipid-soluble *Echinacea* extract further comprises a chloroform soluble *Echinacea* extract.
7. (currently amended) A method of inducing the expression of a phase II enzyme ~~in a subject in need thereof~~ comprising administering ~~to the subject~~ a chloroform-soluble *Echinacea purpurea* extract.
8. (original) The method of claim 7 wherein the *Echinacea* extract is extracted from the *Echinacea* roots.
9. (canceled)

10. (original) The method of claim 7 wherein the *Echinacea* extract is extracted from *Echinacea* aerial parts.
11. (canceled)
12. (withdrawn) A composition for inducing the expression of quinone reductase comprising a lipid-soluble *Echinacea* extract.
13. (withdrawn) The composition of claim 12 wherein the *Echinacea* extract is extracted from *Echinacea* aerial parts.
14. (withdrawn) The composition of claim 12 wherein the *Echinacea* extract is extracted from *Echinacea* roots.
15. (withdrawn) A method of producing lipid-soluble solids of harvested *Echinacea* plant material, the method comprising:
 - a) chopping the *Echinacea* plant material to produce a chopped plant material;
 - b) dehydrating the chopped plant material to produce a dehydrated plant material;
 - c) contacting the blended plant material with methanol to produce a methanol extraction solution;
 - d) drying the methanol extraction solution to produce a dried methanol extract;
 - e) combining at least a portion of the dried methanol extract with water to produce an aqueous suspension;
 - f) fractionating the aqueous suspension with petroleum ether to provide a petroleum ether fractionated aqueous layer and an organic petroleum ether layer;
 - g) fractionating the petroleum ether fractionated aqueous layer with chloroform to provide a chloroform fractionated aqueous layer and an organic chloroform layer;
 - h) collecting the organic chloroform layer; and,
 - i) drying the organic chloroform layer to provide a chloroform fraction powder.

16. (withdrawn) The method of claim 15 further comprising:
- a) adjusting the pH of the chloroform fractionated aqueous layer to about pH 2 to provide a pH-adjusted chloroform fractionated aqueous layer;
 - b) fractionating the pH-adjusted chloroform fractionated aqueous layer with chloroform to provide an acidic chloroform fractionated aqueous layer and an acidic organic chloroform layer;
 - c) collecting the acidic organic chloroform layer; and,
 - d) drying the acidic organic layer chloroform fraction to provide an acidic chloroform fraction powder.
17. (canceled)
18. (previously presented) The method of claim 7 wherein the chloroform-soluble *Echinacea* extract is an effective amount to induce phase II enzyme expression
19. (previously presented) The method of claim 7 wherein the chloroform-soluble *Echinacea* extract is about 0.09 mg/ml.
20. (original) The method of claim 8 wherein the phase II enzyme has a quinone reductase activity of about 1.86 at 610 nm.